



SNS COLLEGE OF ENGINEERING



Kurumbapalayam(Po), Coimbatore – 641 107

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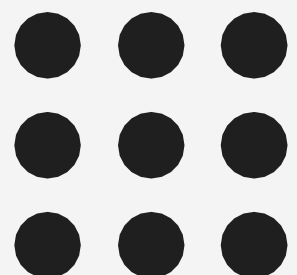
Department of Information Technology

Course Name – IT8075 Software Project Management

IV Year / VII Semester

Unit 3 – Activity Planning and Risk management

Topic 2 – Activities



**Project Activities / IT8075 SPM /
Sivvagami R / IT/SNSCE**

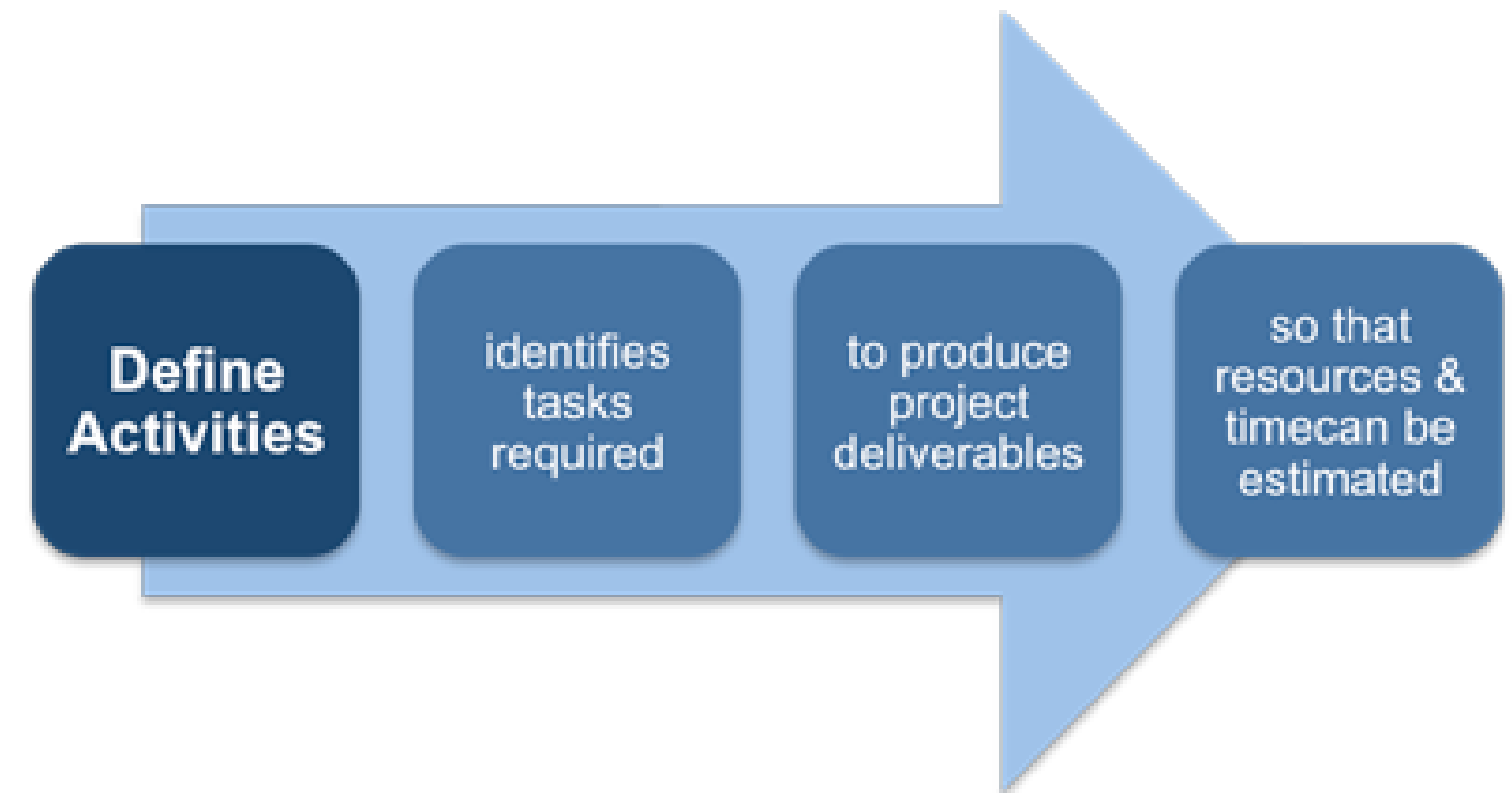
What can you infer from the images below?



Project Activities

Defining Project Activities

- Composed of interrelated activities
- Start atleast one of its activities ready
- Complete when all activities completed
- Clearly defined start and end-point
- Resource requirements must forecastable and required throughout
- Duration must be forecastable



Project Activities

Identifying Project Activities 3 steps

- Activity based approach
- Product based approach
- Hybrid approach



Project Activities

Activity based approach

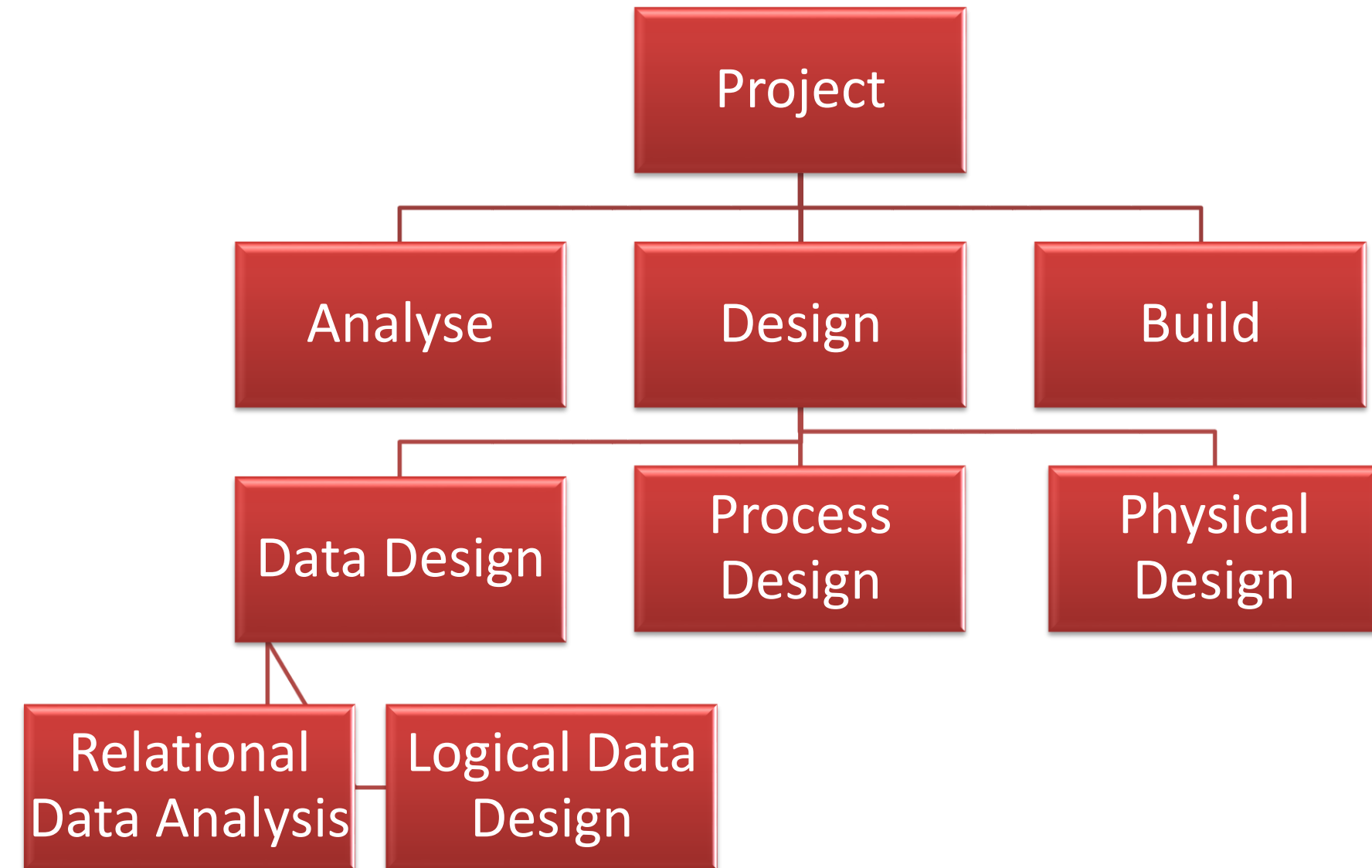
- Consist of list of all activities in project
- Brainstorming or past similar project analysis
- Subdivide project into life-cycle stages
- Identify and list tasks



Project Activities

Activity based approach

- Work Breakdown Structure
- Identify higher level tasks to be completed
- Subdivide this into low level tasks
- Depth of structure is important
- Too great depth – large number of small tasks, difficult to manage
- Too shallow – insufficient detail



Project Activities

Activity based approach

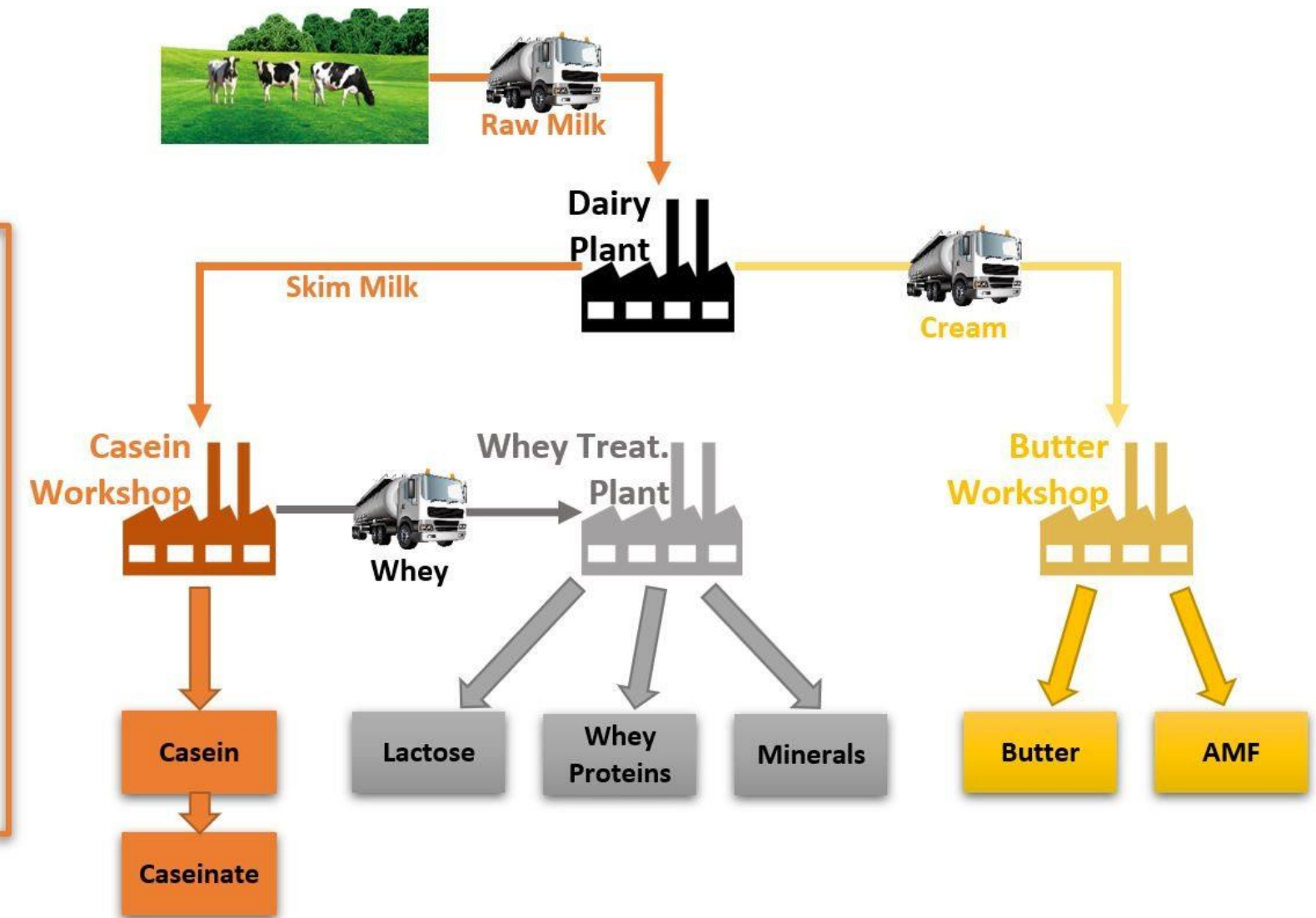
- Advantages – Task catalogue
- Complete and non overlapping activities
- Catalogue includes task definitions, task input and output and other related info.
- WBS structure can be refined as task progress
- Sequence of activities must be decided – i.e which activities are completed before start of others



Project Activities

Product based approach

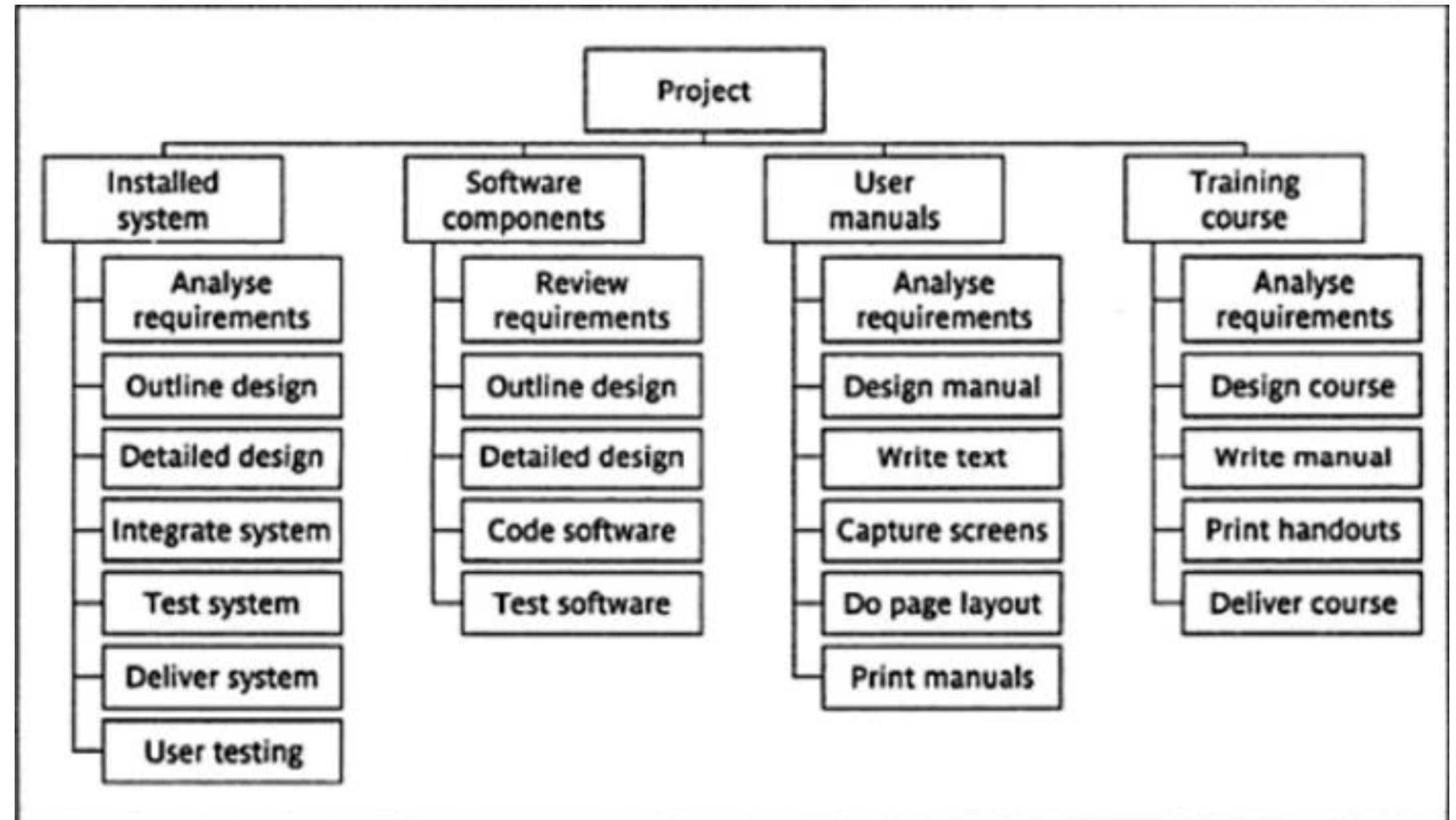
- Product Breakdown Structure (PBS)
- Product Flow Diagram (PFD)
- PFD indicates which other products required as inputs
- PFD transformed into ordered list of activities
- Appropriate for SSADM and USDP



Project Activities

Hybrid based approach

- Structuring both products and activities
- Based on development method adopted
- Framework for number of levels and nature of each level identified

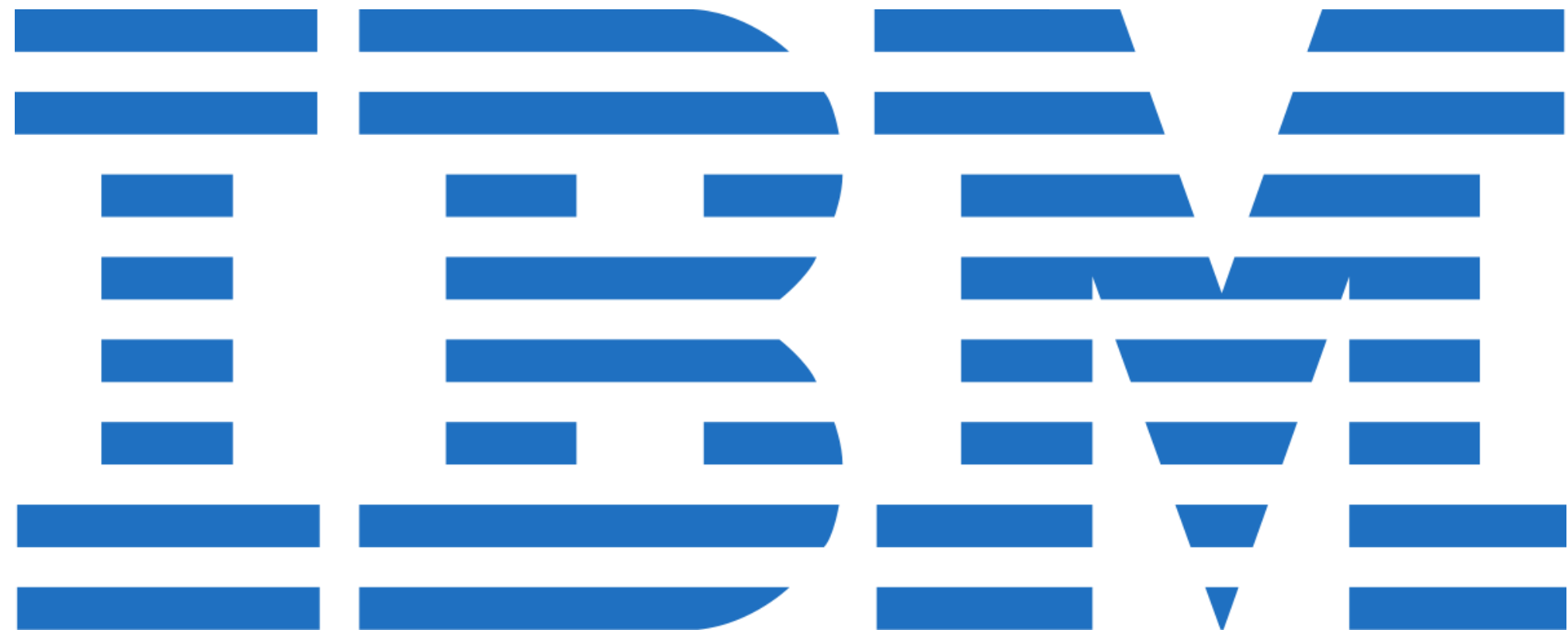


Project Activities

Hybrid based approach

IBM 5 levels of WBS

- Level 1 : Project
- Level 2 : Deliverables
- Level 3 : Components
- Level 4 : Work-packages
- Level 5 : Tasks





THANK YOU